



**RECREA  
ENVIRONMENTAL  
INC.**

H0499 TNU/RECREA

0052705

Chemical and Environmental Measurement Information

**Recrea LabNet Philadelphia**

**Analytical Report**

**\*\*REVISION\*\***

**Client : TNU-HANFORD B99-078**

**RFW# : 9908L850**

**SDG/SAF #: H0499/B99-078**

**W.O. #: 10985-001-001-9999-00**

**Date Received: 08-24-99**

**SEMIVOLATILE**

**RECEIVED**  
MAR 23 2001

**EDMC**

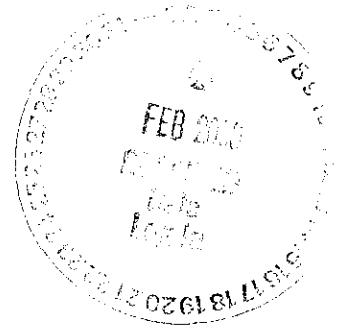
This narrative was corrected to add the TIC search for Tributylphosphate.

Seven (7) soil samples were collected on 08-19-99.

The samples and their associated QC samples were extracted on 08-31-99 and analyzed according to criteria set forth in Recra OPs based on SW 846 Method 8270B for TCL Semivolatile target compounds on 09-03,18,20-99.

The following is a summary of the QC results accompanying the sample results and a description of any problems encountered during their analyses:

1. The cooler temperatures upon receipt have been recorded on the chain-of-custody.
2. The required holding times for extraction and analysis were met.
3. Non-target compounds were detected in the samples.
4. All surrogate recoveries were within EPA QC limits.
5. All matrix spike recoveries were within EPA QC limits.
6. All blank spike recoveries were within EPA QC limits.
7. A spectral search was conducted for the compound Butylated Hydroxytoluene and Tributylphosphate; these compounds were not identified in the samples.



J. Michael Taylor  
J. Michael Taylor

Vice President  
Philadelphia Analytical Laboratory

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The results presented in this report relate only to the analytical testing and conditions of the samples at receipt and during storage. All pages of this report are integral parts of the analytical data. Therefore, this report should only be reproduced in its entirety of 17 pages.

04240

Date

## GLOSSARY OF BNA DATA

### DATA QUALIFIERS

- U** = Compound was analyzed for but not detected. The associated numerical value is the estimated sample quantitation limit which is included and corrected for dilution and percent moisture.
- J** = Indicates an estimated value. This flag is used under the following circumstances: 1) when estimating a concentration for tentatively identified compounds (TICs) where a 1:1 response is assumed; or 2) when the mass spectral data indicate the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero. For example, if the limit of detection is 10 ug/L and a concentration of 3 ug/L is calculated, it is reported as 3J.
- B** = This flag is used when the analyte is found in the associated blank as well as in the sample. It indicates possible/probable blank contamination. This flag is also used for a TIC as well as for a positively identified TCL compound.
- E** = Indicates that the compound was detected beyond the calibration range and was subsequently analyzed at a dilution.
- D** = Identifies all compounds identified in an analysis at a secondary dilution factor.
- I** = Interference.
- NQ** = Result qualitatively confirmed but not able to quantify.
- A** = Indicates that a TIC is a suspected aldol-condensation product.
- N** = Indicates presumptive evidence of a compound. This flag is only used for tentatively identified compounds (TICs), where the identification is based on a mass spectral library search. It is applied to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the N code is not used.
- X** = This flag is used for a TIC compound which is quantified relative to a response factor generated from a daily calibration standard (rather than quantified relative to the closest internal standard).
- Y** = Additional qualifiers used as required are explained in the case narrative.



## GLOSSARY OF BNA DATA

### ABBREVIATIONS

- BS** = Indicates blank spike in which reagent grade water is spiked with the CLP matrix spike solutions and carried through all the steps in the method. Spike recoveries are reported.
- BSD** = Indicates blank spike duplicate.
- MS** = Indicates matrix spike.
- MSD** = Indicates matrix spike duplicate.
- DL** = Suffix added to sample number to indicate that results are from a diluted analysis.
- NA** = Not Applicable.
- DF** = Dilution Factor.
- NR** = Not Required.
- SP, Z** = Indicates Spiked Compound.

## Recra LabNet - Lionville Laboratory

Semivolatiles by GC/MS, HSL List

Report Date: 09/28/99 15:14

RFW Batch Number: 9908L850

Client: TNU-HANFORD B99-078

Work Order: 10985001001

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	Cust ID:	B0W5P4	B0W5P2	B0W5M4	B0W5P3	B0W5M5	B0W5P7
Sample Information	RFW#:	001	002	003	004	005	006
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	D.F.:	1.00	1.00	1.00	1.00	1.00	1.00
	Units:	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
Surrogate Recovery	Nitrobenzene-d5	76 %	84 %	81 %	85 %	78 %	81 %
	2-Fluorobiphenyl	74 %	75 %	74 %	76 %	72 %	72 %
	Terphenyl-d14	79 %	83 %	80 %	82 %	81 %	78 %
	Phenol-d5	66 %	66 %	62 %	68 %	62 %	66 %
	2-Fluorophenol	61 %	60 %	59 %	64 %	58 %	61 %
	2,4,6-Tribromophenol	63 %	65 %	63 %	77 %	64 %	59 %
===== Phenol	350 U	350 U	360 U	350 U	350 U	330 U	330 U
bis(2-Chloroethyl)ether	350 U	350 U	360 U	350 U	350 U	330 U	330 U
2-Chlorophenol	350 U	350 U	360 U	350 U	350 U	330 U	330 U
1,3-Dichlorobenzene	350 U	350 U	360 U	350 U	350 U	330 U	330 U
1,4-Dichlorobenzene	350 U	350 U	360 U	350 U	350 U	330 U	330 U
1,2-Dichlorobenzene	350 U	350 U	360 U	350 U	350 U	330 U	330 U
2-Methylphenol	350 U	350 U	360 U	350 U	350 U	330 U	330 U
2,2'-oxybis(1-Chloropropane)	350 U	350 U	360 U	350 U	350 U	330 U	330 U
4-Methylphenol	350 U	350 U	360 U	350 U	350 U	330 U	330 U
N-Nitroso-di-n-propylamine	350 U	350 U	360 U	350 U	350 U	330 U	330 U
Hexachloroethane	350 U	350 U	360 U	350 U	350 U	330 U	330 U
Nitrobenzene	350 U	350 U	360 U	350 U	350 U	330 U	330 U
Isophorone	350 U	350 U	360 U	350 U	350 U	330 U	330 U
2-Nitrophenol	350 U	350 U	360 U	350 U	350 U	330 U	330 U
2,4-Dimethylphenol	350 U	350 U	360 U	350 U	350 U	330 U	330 U
bis(2-Chloroethoxy)methane	350 U	350 U	360 U	350 U	350 U	330 U	330 U
2,4-Dichlorophenol	350 U	350 U	360 U	350 U	350 U	330 U	330 U
1,2,4-Trichlorobenzene	350 U	350 U	360 U	350 U	350 U	330 U	330 U
Naphthalene	350 U	350 U	360 U	350 U	350 U	330 U	330 U
4-Chloroaniline	350 U	350 U	360 U	350 U	350 U	330 U	330 U
Hexachlorobutadiene	350 U	350 U	360 U	350 U	350 U	330 U	330 U
4-Chloro-3-methylphenol	350 U	350 U	360 U	350 U	350 U	330 U	330 U
2-Methylnaphthalene	350 U	350 U	360 U	350 U	350 U	330 U	330 U
Hexachlorocyclopentadiene	350 U	350 U	360 U	350 U	350 U	330 U	330 U
2,4,6-Trichlorophenol	350 U	350 U	360 U	350 U	350 U	330 U	330 U
2,4,5-Trichlorophenol	870 U	880 U	900 U	880 U	880 U	840 U	

\*= Outside of EPA CLP QC limits.

Cust ID:	B0W5P4	B0W5P2	B0W5M4	B0W5P3	B0W5MS	B0W5P7
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RFW#:	001	002	003	004	005	006
2-Chloronaphthalene	350 U	350 U	360 U	350 U	350 U	330 U
2-Nitroaniline	870 U	880 U	900 U	880 U	880 U	840 U
Dimethylphthalate	350 U	350 U	360 U	350 U	350 U	330 U
Acenaphthylene	350 U	350 U	360 U	350 U	350 U	330 U
2,6-Dinitrotoluene	350 U	350 U	360 U	350 U	350 U	330 U
3-Nitroaniline	870 U	880 U	900 U	880 U	880 U	840 U
Acenaphthene	350 U	350 U	360 U	350 U	350 U	330 U
2,4-Dinitrophenol	870 U	880 U	900 U	880 U	880 U	840 U
4-Nitrophenol	870 U	880 U	900 U	880 U	880 U	840 U
Dibenzofuran	350 U	350 U	360 U	350 U	350 U	330 U
2,4-Dinitrotoluene	350 U	350 U	360 U	350 U	350 U	330 U
Diethylphthalate	350 U	350 U	360 U	350 U	350 U	330 U
4-Chlorophenyl-phenylether	350 U	350 U	360 U	350 U	350 U	330 U
Fluorene	350 U	350 U	360 U	350 U	350 U	330 U
4-Nitroaniline	870 U	880 U	900 U	880 U	880 U	840 U
4,6-Dinitro-2-methylphenol	870 U	880 U	900 U	880 U	880 U	840 U
N-Nitrosodiphenylamine (1)	350 U	350 U	360 U	350 U	350 U	330 U
4-Bromophenyl-phenylether	350 U	350 U	360 U	350 U	350 U	330 U
Hexachlorobenzene	350 U	350 U	360 U	350 U	350 U	330 U
Pentachlorophenol	870 U	880 U	900 U	880 U	880 U	840 U
Phenanthrene	350 U	350 U	360 U	350 U	350 U	330 U
Anthracene	350 U	350 U	360 U	350 U	350 U	330 U
Carbazole	350 U	350 U	360 U	350 U	350 U	330 U
Di-n-butylphthalate	350 U	350 U	360 U	350 U	350 U	330 U
Fluoranthene	350 U	350 U	360 U	350 U	350 U	330 U
Pyrene	350 U	350 U	360 U	350 U	350 U	330 U
Butylbenzylphthalate	350 U	350 U	360 U	350 U	350 U	330 U
3,3'-Dichlorobenzidine	350 U	350 U	360 U	350 U	350 U	330 U
Benzo(a)anthracene	350 U	350 U	360 U	350 U	350 U	330 U
Chrysene	350 U	350 U	360 U	350 U	350 U	330 U
bis(2-Ethylhexyl)phthalate	350 U	350 U	360 U	350 U	350 U	330 U
Di-n-octyl phthalate	350 U	350 U	360 U	350 U	350 U	330 U
Benzo(b)fluoranthene	350 U	350 U	360 U	350 U	350 U	330 U
Benzo(k)fluoranthene	350 U	350 U	360 U	350 U	350 U	330 U
Benzo(a)pyrene	350 U	350 U	360 U	350 U	350 U	330 U
Indeno(1,2,3-cd)pyrene	350 U	350 U	360 U	350 U	350 U	330 U
Dibenz(a,h)anthracene	350 U	350 U	360 U	350 U	350 U	330 U
Benzo(g,h,i)perylene	350 U	350 U	360 U	350 U	350 U	330 U

(1) - Cannot be separated from Diphenylamine. \*= Outside of EPA CLP QC limits.

## Recra LabNet - Lionville Laboratory

Semivolatiles by GC/MS, HSL List

Report Date: 09/28/99 15:14

RFW Batch Number: 9908L850

Client: TNU-HANFORD B99-078

Work Order: 10985001001

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	Cust ID:	BOW681	BOW681	BOW681	SBLKBY	SBLKBY BS
Sample Information	RFW#:	007	007 MS	007 MSD	99LE1063-MB1	99LE1063-MB1
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL
	D.F.:	1.00	1.00	1.00	1.00	1.00
	Units:	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
Surrogate Recovery	Nitrobenzene-d5	73 %	81 %	87 %	76 %	71 %
	2-Fluorobiphenyl	68 %	70 %	69 %	72 %	66 %
	Terphenyl-d14	71 %	75 %	74 %	69 %	60 %
	Phenol-d5	61 %	62 %	59 %	72 %	70 %
	2-Fluorophenol	57 %	64 %	61 %	69 %	69 %
	2,4,6-Tribromophenol	65 %	72 %	64 %	58 %	58 %
Phenol		400 U	58 %	52 %	330 U	64 %
bis(2-Chloroethyl)ether		400 U	400 U	400 U	330 U	330 U
2-Chlorophenol		400 U	63 %	61 %	330 U	65 %
1,3-Dichlorobenzene		400 U	400 U	400 U	330 U	330 U
1,4-Dichlorobenzene		400 U	75 %	74 %	330 U	74 %
1,2-Dichlorobenzene		400 U	400 U	400 U	330 U	330 U
2-Methylphenol		400 U	400 U	400 U	330 U	330 U
2,2'-oxybis(1-Chloropropane)		400 U	400 U	400 U	330 U	330 U
4-Methylphenol		400 U	400 U	400 U	330 U	330 U
N-Nitroso-di-n-propylamine		400 U	102 %	102 %	330 U	80 %
Hexachloroethane		400 U	400 U	400 U	330 U	330 U
Nitrobenzene		400 U	400 U	400 U	330 U	330 U
Isophorone		400 U	400 U	400 U	330 U	330 U
2-Nitrophenol		400 U	400 U	400 U	330 U	330 U
2,4-Dimethylphenol		400 U	400 U	400 U	330 U	330 U
bis(2-Chloroethoxy)methane		400 U	400 U	400 U	330 U	330 U
2,4-Dichlorophenol		400 U	400 U	400 U	330 U	330 U
1,2,4-Trichlorobenzene		400 U	77 %	81 %	330 U	75 %
Naphthalene		400 U	400 U	400 U	330 U	330 U
4-Chloroaniline		400 U	400 U	400 U	330 U	330 U
Hexachlorobutadiene		400 U	400 U	400 U	330 U	330 U
4-Chloro-3-methylphenol		400 U	68 %	64 %	330 U	64 %
2-Methylnaphthalene		400 U	400 U	400 U	330 U	330 U
Hexachlorocyclopentadiene		400 U	400 U	400 U	330 U	330 U
2,4,6-Trichlorophenol		400 U	400 U	400 U	330 U	330 U
2,4,5-Trichlorophenol		1000 U	1000 U	1000 U	840 U	840 U

\*= Outside of EPA CLP QC limits.

Cust ID:	BOW681	BOW681	BOW681	SBLKBY	SBLKBY BS
RFW#:	007	007 MS	007 MSD	99LE1063-MB1	99LE1063-MB1
2-Chloronaphthalene	400 U	400 U	400 U	330 U	330 U
2-Nitroaniline	1000 U	1000 U	1000 U	840 U	840 U
Dimethylphthalate	400 U	400 U	400 U	330 U	330 U
Acenaphthylene	400 U	400 U	400 U	330 U	330 U
2,6-Dinitrotoluene	400 U	400 U	400 U	330 U	330 U
3-Nitroaniline	1000 U	1000 U	1000 U	840 U	840 U
Acenaphthene	400 U	75 %	73 %	330 U	63 %
2,4-Dinitrophenol	1000 U	1000 U	1000 U	840 U	840 U
4-Nitrophenol	1000 U	54 %	53 %	840 U	45 %
Dibenzofuran	400 U	400 U	400 U	330 U	330 U
2,4-Dinitrotoluene	400 U	79 %	76 %	330 U	64 %
Diethylphthalate	400 U	400 U	400 U	330 U	330 U
4-Chlorophenyl-phenylether	400 U	400 U	400 U	330 U	330 U
Fluorene	400 U	400 U	400 U	330 U	330 U
4-Nitroaniline	1000 U	1000 U	1000 U	840 U	840 U
4,6-Dinitro-2-methylphenol	1000 U	1000 U	1000 U	840 U	840 U
N-Nitrosodiphenylamine (1)	400 U	400 U	400 U	330 U	330 U
4-Bromophenyl-phenylether	400 U	400 U	400 U	330 U	330 U
Hexachlorobenzene	400 U	400 U	400 U	330 U	330 U
Pentachlorophenol	1000 U	71 %	78 %	840 U	61 %
Phenanthrene	400 U	400 U	400 U	330 U	330 U
Anthracene	400 U	400 U	400 U	330 U	330 U
Carbazole	400 U	400 U	400 U	330 U	330 U
Di-n-butylphthalate	400 U	400 U	400 U	330 U	330 U
Fluoranthene	400 U	400 U	400 U	330 U	330 U
Pyrene	400 U	79 %	76 %	330 U	63 %
Butylbenzylphthalate	400 U	400 U	400 U	330 U	330 U
3,3'-Dichlorobenzidine	400 U	400 U	400 U	330 U	330 U
Benzo(a)anthracene	400 U	400 U	400 U	330 U	330 U
Chrysene	400 U	400 U	400 U	330 U	330 U
bis(2-Ethylhexyl)phthalate	100 J	400 U	400 U	330 U	330 U
Di-n-octyl phthalate	400 U	400 U	400 U	330 U	330 U
Benzo(b)fluoranthene	400 U	400 U	400 U	330 U	330 U
Benzo(k)fluoranthene	400 U	400 U	400 U	330 U	330 U
Benzo(a)pyrene	400 U	400 U	400 U	330 U	330 U
Indeno(1,2,3-cd)pyrene	400 U	400 U	400 U	330 U	330 U
Dibenz(a,h)anthracene	400 U	400 U	400 U	330 U	330 U
Benzo(g,h,i)perylene	400 U	400 U	400 U	330 U	330 U

(1) - Cannot be separated from Diphenylamine. \* = Outside of EPA CLP QC limits.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

Lab Name: Recra.LabNetWork Order: 10985001001

BOW5P4

Client: TNU-HANFORD B99-078Matrix: (soil/water) SOILLab Sample ID: 9908L850-001Sample wt/vol: 30.1 (g/mL) GLab File ID: A091714Level: (low/med) LOWDate Received: 08/24/99% Moisture: 5 decanted: (Y/N)       Date Extracted: 08/31/99Concentrated Extract Volume: 1000(uL)Date Analyzed: 09/18/99Injection Volume: 2.0(uL)Dilution Factor: 1.00GPC Cleanup: (Y/N) N pH:       

CONCENTRATION UNITS:

Number TICs found: 1 (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	ALDOL CONDENSATE	8.34	70	JA

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Recra.LabNetWork Order: 10985001001BOW5P2Client: TNU-HANFORD B99-078Matrix: (soil/water) SOILLab Sample ID: 9908L850-002Sample wt/vol: 30.0 (g/mL) GLab File ID: A091715Level: (low/med) LOWDate Received: 08/24/99% Moisture: 5 decanted: (Y/N)       Date Extracted: 08/31/99Concentrated Extract Volume: 1000(uL)Date Analyzed: 09/18/99Injection Volume: 2.0(uL)Dilution Factor: 1.00GPC Cleanup: (Y/N) NpH:       

CONCENTRATION UNITS:

Number TICs found: 2(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	ALDOL CONDENSATE	8.35	90	JA
2.	UNKNOWN	24.36	90	JB

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Recra.LabNetWork Order: 10985001001

BOW5M4

Client: TNU-HANFORD B99-078Matrix: (soil/water) SOILLab Sample ID: 9908L850-003Sample wt/vol: 30.1 (g/mL) GLab File ID: A091716Level: (low/med) LOWDate Received: 08/24/99% Moisture: 8 decanted: (Y/N)       Date Extracted: 08/31/99Concentrated Extract Volume: 1000(uL)Date Analyzed: 09/18/99Injection Volume: 2.0(uL)Dilution Factor: 1.00GPC Cleanup: (Y/N) N pH:       

CONCENTRATION UNITS:

Number TICs found: 2(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	ALDOL CONDENSATE	8.34	100	JA
2.	UNKNOWN	24.36	100	JB

1F  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

Lab Name: Recra.LabNet Work Order: 10985001001

|  
| BOW5P3  
|

Client: TNU-HANFORD B99-078

Matrix: (soil/water) SOIL Lab Sample ID: 9908L850-004

Sample wt/vol: 30.1 (g/mL) G Lab File ID: A092011

Level: (low/med) LOW Date Received: 08/24/99

% Moisture: 5 decanted: (Y/N) \_\_\_\_\_ Date Extracted: 08/31/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 09/20/99

Injection Volume: 2.0(uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: \_\_\_\_\_

CONCENTRATION UNITS:

Number TICs found: 1 (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	ALDOL CONDENSATE	8.34	100	JA

1F  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

Lab Name: Recra.LabNet Work Order: 10985001001

|  
| BOW5M5  
|

Client: TNU-HANFORD B99-078

Matrix: (soil/water) SOIL Lab Sample ID: 9908L850-005

Sample wt/vol: 30.0 (g/mL) G Lab File ID: A092012

Level: (low/med) LOW Date Received: 08/24/99

% Moisture: 5 decanted: (Y/N)        Date Extracted: 08/31/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 09/20/99

Injection Volume: 2.0(uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH:       

CONCENTRATION UNITS:

Number TICs found: 0 (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
=====	=====	=====	=====	=====
1.				

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Recra.LabNet Work Order: 10985001001

B0W5P7

Client: TNU-HANFORD B99-078

Matrix: (soil/water) SOIL Lab Sample ID: 9908L850-006

Sample wt/vol: 30.0 (g/mL) G Lab File ID: A092013

Level: (low/med) LOW Date Received: 08/24/99

% Moisture: 0 decanted: (Y/N) Date Extracted: 08/31/99

Concentrated Extract Volume: 1000(uL) Date Analyzed: 09/20/99

Injection Volume: 2.0(uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: \_\_\_\_\_

CONCENTRATION UNITS:

Number TICs found: 4 (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	ALDOL CONDENSATE	8.34	200	JA
2.	ALDOL CONDENSATE	9.13	100	JA
3.	UNKNOWN	10.04	100	J
4.	UNKNOWN	24.38	100	JB

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Recra.LabNetWork Order: 10985001001

BOW681

Client: TNU-HANFORD B99-078Matrix: (soil/water) SOILLab Sample ID: 9908L850-007Sample wt/vol: 30.0 (g/mL) GLab File ID: A092014Level: (low/med) LOWDate Received: 08/24/99% Moisture: 16 decanted: (Y/N)   Date Extracted: 08/31/99Concentrated Extract Volume: 1000 (uL)Date Analyzed: 09/20/99Injection Volume: 2.0 (uL)Dilution Factor: 1.00GPC Cleanup: (Y/N) N pH:   

CONCENTRATION UNITS:

Number TICs found: 4(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	ALDOL CONDENSATE	8.35	200	JA
2.	ALDOL CONDENSATE	9.13	100	JA
3.	ORGANIC ACID	21.13	100	J
4.	UNKNOWN	24.36	200	JB

1F  
 SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

Lab Name: Recra.LabNet

Work Order: 10985001001

SBLKBY

Client: TNU-HANFORD B99-078

Matrix: (soil/water) SOIL

Lab Sample ID: 99LE1063-MB1

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: A090314

Level: (low/med) LOW

Date Received: 08/31/99

% Moisture: \_\_\_\_\_ decanted: (Y/N) \_\_\_\_\_

Date Extracted: 08/31/99

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 09/03/99

Injection Volume: 2.0 (uL)

Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: \_\_\_\_\_

CONCENTRATION UNITS:

Number TICs found: 1

(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	22.45	200	J

Recra LabNet - Lionville Laboratory  
 BNA ANALYTICAL DATA PACKAGE FOR  
 TNU-HANFORD B99-078

DATE RECEIVED: 08/24/99

RFW LOT # :9908L850

CLIENT ID	RFW #	MTX	PREP #	COLLECTION	EXTR/PREP	ANALYSIS
BOW5P4	001	S	99LE1063	08/19/99	08/31/99	09/18/99
BOW5P2	002	S	99LE1063	08/19/99	08/31/99	09/18/99
BOW5M4	003	S	99LE1063	08/19/99	08/31/99	09/18/99
BOW5P3	004	S	99LE1063	08/19/99	08/31/99	09/20/99
BOW5M5	005	S	99LE1063	08/19/99	08/31/99	09/20/99
BOW5P7	006	S	99LE1063	08/19/99	08/31/99	09/20/99
BOW681	007	S	99LE1063	08/19/99	08/31/99	09/20/99
BOW681	007 MS	S	99LE1063	08/19/99	08/31/99	09/20/99
BOW681	007 MSD	S	99LE1063	08/19/99	08/31/99	09/20/99

LAB QC:

SBLKBY	MB1	S	99LE1063	N/A	08/31/99	09/03/99
SBLKBY	MB1 BS	S	99LE1063	N/A	08/31/99	09/03/99

9908L850

## Custody Transfer Record/Lab Work Request Page 1 of 1



**ALL** FIELD PERSONNEL: COMPLETE ONLY SHADED AREAS

Client	TWH-Hanford B99-078				Refrigerator #	1	6			6	6	6
Est. Final Proj. Sampling Date					#/Type Container	Liquid						
Project #	10985-001-001-9999-00					Solid	1g	1g	1g	1g	1g	1g
Project Contact/Phone #					Volume	Liquid						
RECRA Project Manager	" AJ					Solid	250	500	1	500	250	1000
QC Spec	Det	std	TAT	30 day	Preservatives							
Date Rec'd	8/24/99		Date Due	9/23/99	ANALYSES REQUESTED	ORGANIC				INORG		
Account #						VOA	BNA	Pesu	PCB	Herb	Metal	CN

MATRIX CODES: S - Soil SE - Sediment SO - Solid SL - Sludge W - Water O - Oil A - Air DS - Drum Solids DL - Drum Liquids L - EP/TCLP Leachate WI - Wipe X - Other F - Fish	Lab ID	Client ID/Description	Matrix QC Chosen (✓)	Matrix	Date Collected	Time Collected	RECRA LabNet Use Only					
				MS	MSD	8/24/99	0254	0254	0253	0252	0250	2400
		001 BOWSP4		S	8/19/99	1145	X	X	X	X	X	X X
	1	5P2				1105						
	2	5M4				1025						
	3	5P3				1121						
	4	5MS				1050						
	5	5P7				0900						
	6	681				0900	-	-	-	-	-	-
	+7						-	-	-	-	-	-

Rew matrix QC

Special Instructions:

Ref# B99-078

COMPOSITE  
WASTE

DATE/REVISIONS:

Met① = As, Ba, Be, Cd, Cr, Cu, Pb, Ni, Se,  
2. Ag, V, Zn, Hg, ICRG

Anag② = IN3N2, ICCL, ICFL, ICNO2, ICNO3,  
4. ICP04, ICS04, ISED, INH3N, ICNT0

\* 5. 423579528602-3.7°C

6. 423579528598-4.2°C

Relinquished by	Received by	Date	Time
FedEx	Johnson	8/24/99	0930

Relinquished by	Received by	Date	Time
	ORIGINAL REWRITTEN		

Discrepancies Between  
Samples Labels and  
COC Record? Y or N  
NOTES:

\* 4019645195

RECRA LabNet Use Only

Samples were  
1) Shipped  or  
Hand Delivered

Airbill # 2) Ambient or Chilled 3) Received in Good Condition  Y or N4) Labels Indicate Properly Preserved  Y or N5) Received Within Holding Times  Y or N

COC Tape was:  
1) Present on Outer Package  Y or N

2) Unbroken on Outer Package  Y or N

3) Present on Sample  Y or N

4) Unbroken on Sample  Y or N

COC Record Present Upon Sample Rec't  Y or N

Cooler Temp.  5.1 °C